

FIG. 1

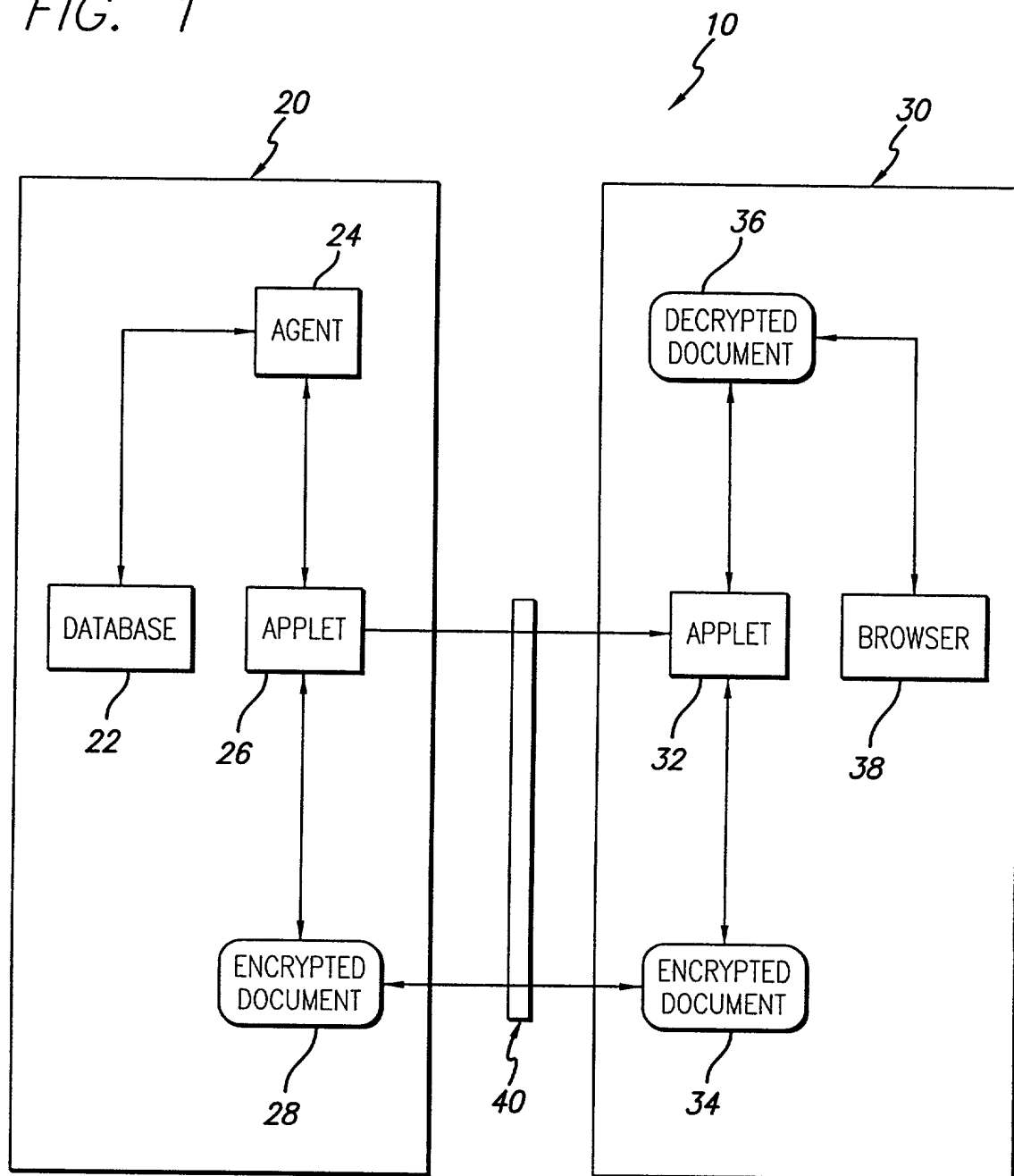


FIG. 2(a)

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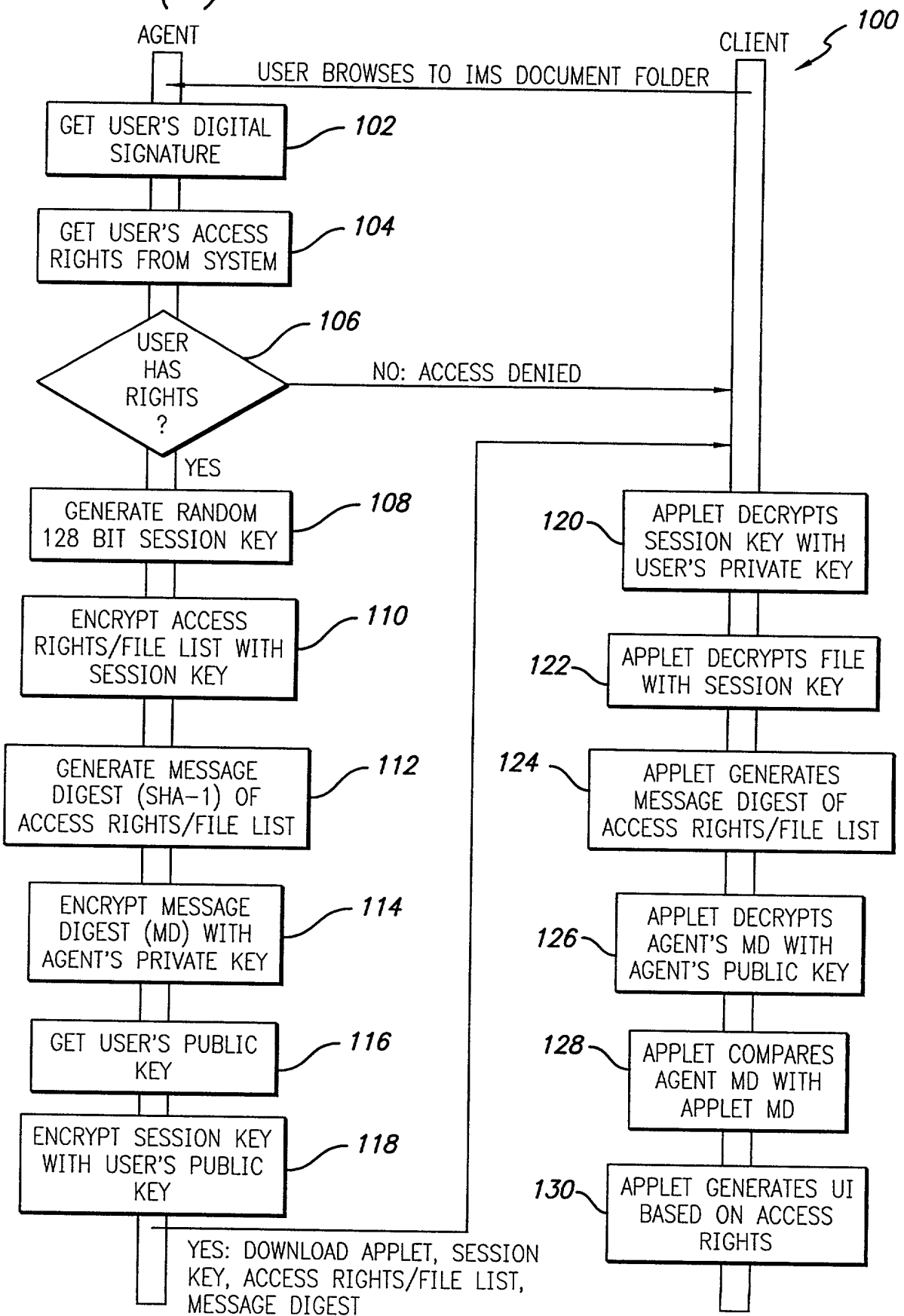
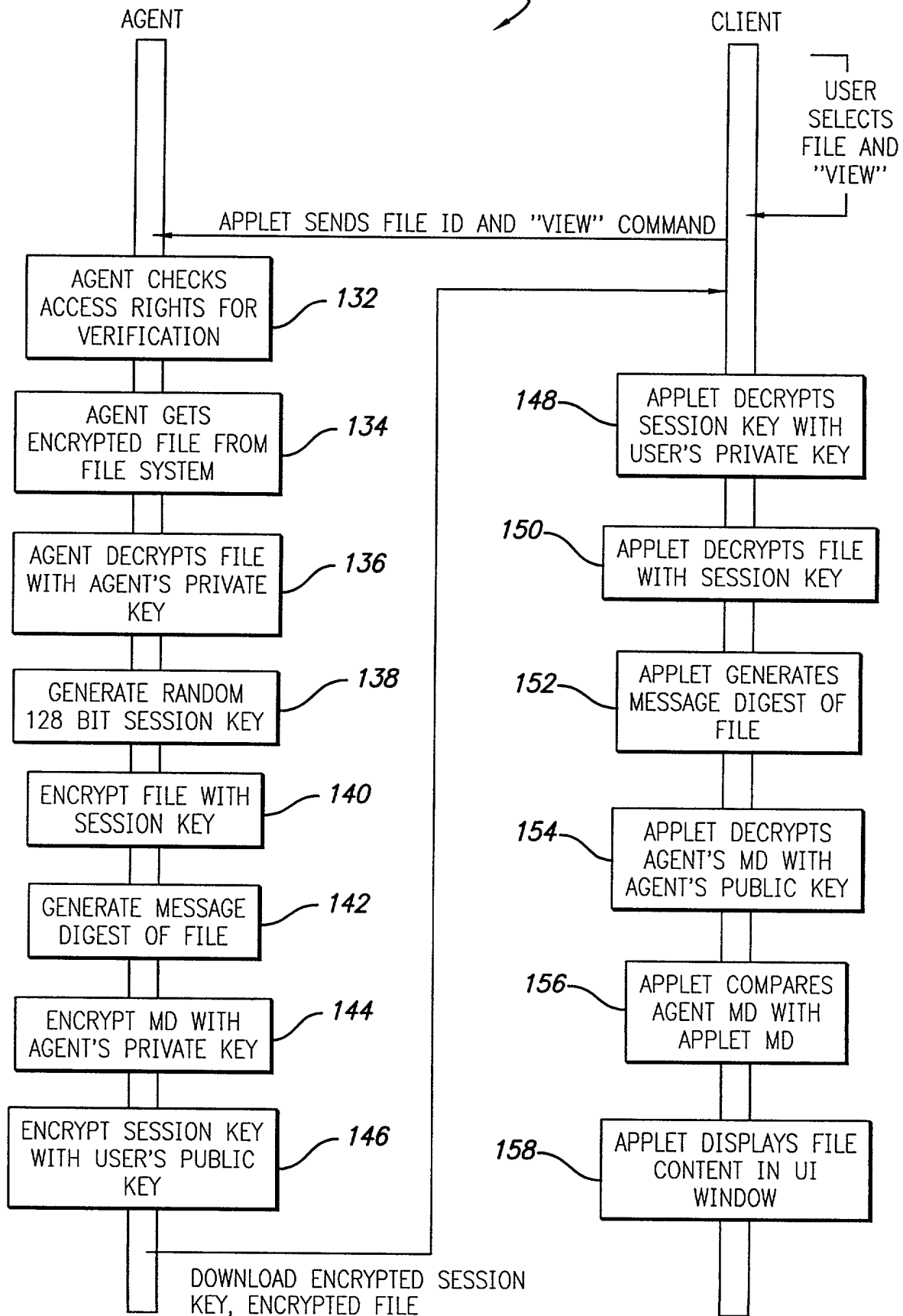


FIG. 2(b)

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100



AGENT 4/5

FIG. 2(c)

100

CLIENT

USER
SELECTS
"MODIFY"

USER
MODIFIES
FILE

CLIENT

USER
SELECTS
"SUBMIT
CHANGES"

100

160 APPLET ADDS TAGS FOR
USER'S CHANGES

162 GENERATE RANDOM
128 BIT SESSION KEY

164 ENCRYPT FILE WITH
SESSION KEY

166 GENERATE MESSAGE
DIGEST OF FILE

168 ENCRYPT MD WITH
APPLET'S PRIVATE KEY

170 ENCRYPT SESSION KEY
WITH USER'S PRIVATE
KEY

FIG. 2(d)

APPLET SENDS ENCRYPTED FILE,
SESSION KEY AND MESSAGE DIGEST

172 AGENT DECRYPTS
SESSION KEY WITH
USER'S PUBLIC KEY

174 AGENT DECRYPTS FILE
WITH SESSION KEY

176 AGENT GENERATES
MESSAGE DIGEST OF
FILE

178 AGENT DECRYPTS
APPLET'S MD WITH
APPLET'S PUBLIC KEY

180 AGENT COMPARES
AGENT MD WITH
APPLET MD

182 AGENT ADDS TAGS FOR
USER, SUBMISSION
TIME AND DATE

184 AGENT ENCRYPTS FILE
WITH AGENT'S PUBLIC
KEY

186 AGENT WRITES
ENCRYPTED FILE TO FILE
SYSTEM

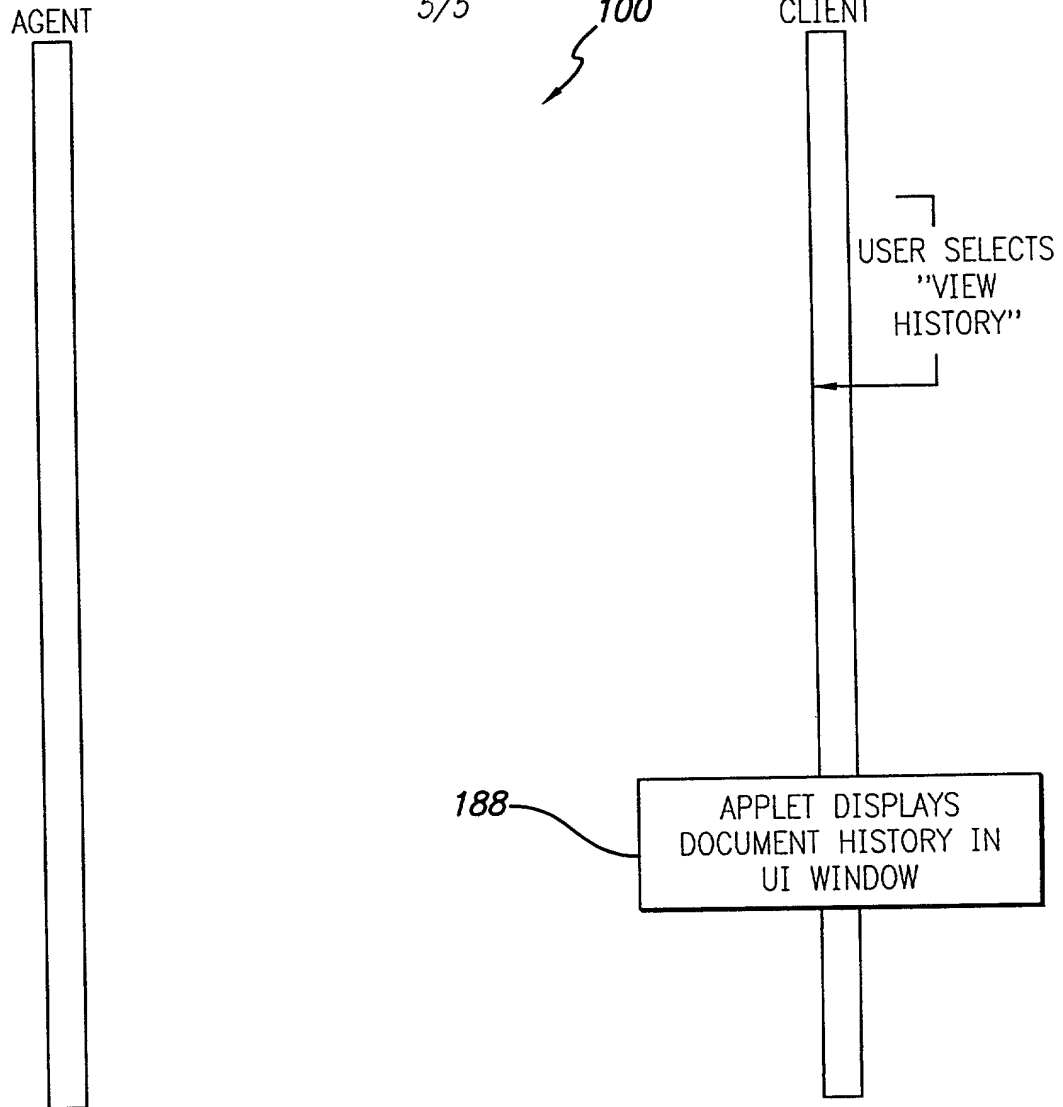


FIG. 2(e)